

# EAST Search History (53 pp.) *gfk* (+ 4 p. added).

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	sapphire adj substrate near6 back-side adj metallization	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 19:36
L2	0	sapphire adj substrate with back-side adj metallization	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 19:36
L3	0	sapphire adj substrate same back-side adj metallization	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 19:36
L4	0	sapphire adj substrate same back adj2 metallization	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 19:36
L5	0	sapphire adj substrate same (back adj2 metallization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/10 19:37
L6	86	sapphire adj substrate same (metallization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 19:37
L7	30	sapphire adj substrate with (metallization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 19:37
S1	2	jp-11070610\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 16:24
S2	6	"748734".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 09:55
S3	1102	(257/99).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/21 09:31

## EAST Search History

S4	2	S3 and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 09:33
S5	36	(257/79.ccls. 257/8\$1.ccls. 257/9\$1.ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50.ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:44
S6	1	wo-200245179\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:44
S7	0	(257/79.ccls. 257/8\$1.ccls. 257/9\$1.ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50.ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:44
S8	3	(257/79.ccls. 257/8\$1.ccls. 257/9\$1.ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50.ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) same electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:47
S9	135	(zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) same electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:48
S10	10	(zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) near5 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 09:48
S11	48	electrode near6 (ZnO zinc adj oxide) near20 (magnesium Mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:14

## EAST Search History

S12	0	transparent adj electrode near20 MgO near20 "MgO:Mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:15
S13	0	transparent adj electrode near20 (ZnO near20 "ZnO:Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:15
S14	0	transparent adj electrode near20 ZnO near20 "ZnO:Mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:15
S15	0	electrode near20 ZnO near20 "ZnO:Mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:16
S16	1	electrode near20 ZnO near20 Mg near4 doping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:16
S17	2	electrode near20 ZnO near20 (Mg near4 (doping doped) Mg-doped)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:17
S18	4	transparent adj electrode near10 (Mg near4 (doping doped) Mg-doped)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/21 10:18
S19	15	(US-20040227141-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20030048072-\$).did. or (US-5670792-\$).did. or (JP-11070610-\$ or JP-2004259549-\$).did. or (JP-11070610-\$ or WO-200245179-\$ or US-20040166379-\$ or JP-59162133-\$ or JP-50092490-\$ or US-20040164314-\$ or EP-863555-\$ or JP-80013404-\$). did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/03/21 10:30

## EAST Search History

S20	2	("20040189186").PN.	US-PGPUB; DERWENT	OR	OFF	2005/03/21 10:43
S21	0	("mg-dopednear6(znozincaadjoxide) )andelectrode").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/03/21 10:44
S22	7	mg-doped near6 (zno zinc adj oxide) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:44
S23	7	mg-doped near6 (zno zinc adj oxide) and electrode and transparent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:55
S24	1	mg-doped near6 (zno zinc adj oxide) near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:56
S25	7	mg-doped near2 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:57
S26	36	electrode near4 ("zno:mg" zno zinc adj oxide) same (mg magenisum mg-doped)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 10:58
S27	15	electrode near4 ("zno:mg" zno zinc adj oxide) same (mg magenisum mg-doped) and transparent	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:05
S28	0	electrode near4 "zno:mg" same (doping dopant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:05
S29	1463	electrode near4 zno zinc adj oxide same (doping dopant) same (magnesium mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:06

## EAST Search History

S30	3	electrode near4 (zno zinc adj oxide "zno:mg") same (doping dopant) same (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:12
S31	2	moisture near4 electrode near4 (zno zinc adj oxide) same (magnesium mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:13
S32	19	(US-20040227141-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20030048072-\$ or US-20040189186-\$ or US-20020163005-\$).did. or (US-5670792-\$ or US-RE37446-\$ or US-6639354-\$).did. or (JP-11070610-\$ or JP-2004259549-\$).did. or (JP-11070610-\$ or WO-200245179-\$ or US-20040166379-\$ or JP-59162133-\$ or JP-50092490-\$ or US-20040164314-\$ or EP-863555-\$ or JP-80013404-\$). did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/03/21 11:22
S33	0	ITO near4 (Mg magnesium) near4 moisture	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/03/21 11:22
S34	1	ITO near8 (Mg magnesium) near8 moisture	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/03/21 11:23
S35	98	doped near2 zno near20 electrode	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/03/21 11:23
S36	22	doped near2 zno near20 electrode same transparent and moisture	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:26
S37	20	doped near2 zno near20 electrode same transparent and moisture and (magnesium Mg)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:27

## EAST Search History

S38	1	(magnesium Mg) near20 doped near2 zno near20 electrode same transparent and moisture	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:27
S39	1	(magnesium Mg) near20 (doping doped implanting implantation diffusion diffusing) near20 zno near20 electrode same transparent and moisture	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:28
S40	8	(magnesium Mg) near20 (doping doped implanting implantation diffusion diffusing) near20 (zinc adj oxide ito zno) near20 electrode same transparent and moisture	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:31
S41	54	("In-doped" ZnO) near6 electrode same (Mg magnesium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:32
S42	25	("In-doped" ZnO) near6 electrode same (Mg magnesium) and transparent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:32
S43	7	("In-doped" ZnO) near6 electrode near10 (Mg magnesium) and transparent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:58
S44	0	((implantation implanting implant) near6 ZnO near6 (mg magnesium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:59
S45	0	((implantation implanting implant) near6 (zinc adj oxide ZnO) near6 (mg magnesium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:59

## EAST Search History

S46	0	((implantation implanting implant) near6 (zinc adj oxide ZnO) near20 (mg magnesium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 11:59
S47	0	((implantation implanting implant) near20 (zinc adj oxide ZnO) near20 (mg magnesium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:00
S48	462	(doping doped dopant implant implantation implanting) near6 (zno zinc adj oxide) and (zinc adj oxide zno) near10 electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:02
S49	17	(doping doped dopant implant implantation implanting) near6 (zno zinc adj oxide) near6 (mg magnesium) and (zinc adj oxide zno) near10 electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:09
S50	1	wo-200108229\$-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:32
S51	72	ZnO near2 transparent adj electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:33
S52	21	ZnO near2 transparent adj electrode and light adj emitting.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/21 12:33
S53	6	"748734".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 11:59

## EAST Search History

S54	0	neutron near4 imaging near4 substance adj abuse	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/21 14:33
S55	6	"748734".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 09:20
S56	1	(US-20040166379-\$).did.	US-PGPUB	OR	OFF	2005/11/02 09:21
S57	2	"20020105279"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 09:32
S58	0	wo-0108229\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 09:32
S59	0	wo-01008229\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 09:32
S60	3	"6674098"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 10:29
S61	13	((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541,797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/11/02 10:34
S62	10	S61 and (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 10:37
S63	6	S61 and (zno zinc adj oxide) near6 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 10:37



## EAST Search History

S64	6	S61 and (zno zinc adj oxide) near6 electrode and gan	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 10:37
S65	0	S61 and (zno zinc adj oxide) near6 electrode and gan and ("mg:zno" "zno:mg" ((mg magnesium) near4 dop\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 10:39
S66	4	S61 and (zno zinc adj oxide) near6 electrode and gan and (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:20
S67	2	("20020105279").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 10:53
S68	2	("20010030196").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 10:53
S69	1	"6674098".pn. and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:29
S70	24	zno near4 electrode and magnesium near4 dop\$3 near4 (electrode zno zinc adj oxide) and gan and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:32
S71	0	zno near1 electrode and magnesium near4 dop\$3 near4 (electrode zno zinc adj oxide) and gan and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:32
S72	29	(mg magnesium) near4 dop\$3 near4 electrode and gan and semiconductor and (zinc adj oxide zno) near6 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:33
S73	28	(mg magnesium) near3 dop\$3 near3 electrode and gan and semiconductor and (zinc adj oxide zno) near6 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:34

## EAST Search History

S74	24	(mg magnesium) near3 dop\$3 near3 electrode and gan and semiconductor and (zinc adj oxide zno) near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:35
S75	1	(mg magnesium) near3 dop\$3 near3 electrode near3 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:35
S76	2	(mg magnesium) near5 dop\$3 near5 electrode near5 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near5 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:36
S77	2	(mg magnesium) near8 dop\$3 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:38
S78	0	(mg magnesium) near8 implant\$5 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:39
S79	0	((mg magnesium) near8 implant\$5 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode) (("mg:zno" "zno:mg") near4 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:40
S80	0	mg adj doped adj electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:41
S81	13	mg adj doped adj4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:45
S82	45	mg near4 (doping dopant implant\$5) near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 11:45

## EAST Search History

S83	0	mg near4 (doping dopant implant\$5) near4 electrode near4 (zinc adj oxide zno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 12:58
S84	1	"zno:mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:00
S85	52	"zno:\$2 near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:23
S86	12	"zno:\$2 near4 electrode and (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:19
S87	13	"zno:al" same (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:20
S88	1	"zno:mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:25
S89	0	znmgo near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 13:25
S90	0	("zn.sub." near1 "mg.sub."\$4 near1 "o") near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:15
S91	0	"zno:al" near4 electrode near4( workfunction work adj function)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:16
S92	0	"zno:al" near4 electrode near4 (workfunction work adj function)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:16

## EAST Search History

S93	0	"zno:al" near4 electrode same (workfunction work adj function)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:16
S94	32	"zno:al" near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:16
S95	15	"zno:al" near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:17
S96	15	("zno:al" MZO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:21
S97	0	("zno:mg" MZO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:21
S98	0	("zno:mg" MgZO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:22
S99	3	("zno:mg" MgZnO ZnOMg ZnMgO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:49
S100	17	((("2001010867") or ("2002164570") or ("2000353820") or ("2002111059") or ("2002076356") or ("2002222991") or ("2002170993"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 14:32
S101	14	jp-2001010867\$-\$.did. jp-2002164570\$-\$.did. jp-2000353820\$-\$.did. jp-2002111059\$-\$.did. jp-2002076356\$-\$.did. jp-2002222991\$-\$.did. jp-2002170993\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 14:34

## EAST Search History

S10 2	3	("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:50
S10 3	3	("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:50
S10 4	3	("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO Mg1-xZnxO) near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:50
S10 5	3	("zno:mg" MgZnO ZnOMg ZnMgO "MgxZn1-xO" "Mg1-xZnxO") near4 electrode and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:58
S10 6	2	("20020126719").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/02 14:55
S10 7	3	("zno:mg" MgZnO ZnOMg ZnMgO "MgxZn1-xO" "Mg1-xZnxO") near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/02 14:58
S10 8	10833	(zno zinc adj oxide ito indium adj tin adj oxide ito) near4 (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:24
S10 9	10833	(zno zinc adj oxide (indium adj tin adj oxide) ito) near4 (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:24
S11 0	10833	(zno (zinc adj oxide) (indium adj tin adj oxide) ito) near4 (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:25
S11 1	7117	(zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:25

## EAST Search History

S11 2	1880	(zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:25
S11 3	220	(zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:28
S11 4	167	(zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm. and @ad<"20030226"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:30
S11 5	165	((zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm. and @ad<"20030226") not rohm.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:37
S11 6	0	("mg:ito" "ito:mg" "zno:mg" "mg:zno") and S115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:41
S11 7	12	(zinc-magnesium adj oxide and zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:42
S11 8	1	(zinc-magnesium adj oxide and zinc adj oxide) and S115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:43
S11 9	1	(zinc-magnesium adj oxide and zinc adj oxide) and S115 and magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:44
S12 0	1	(zinc-magnesium adj oxide and zinc adj oxide) and S115 and (mg magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:45
S12 1	2	(zinc-magnesium adj oxide and zinc adj oxide) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:46

## EAST Search History

S12 2	0	"mg:ito"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:47
S12 3	0	"ito:mg"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:47
S12 4	3	magnesium adj indium adj tin adj oxide	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:48
S12 5	0	erosion near4 zinc adj oxide and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:55
S12 6	325	erosion and zinc adj oxide and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:56
S12 7	485	erosion and (zno zinc adj oxide) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:56
S12 8	13	erosion near8 (zno zinc adj oxide) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:56
S12 9	9	erosion near8 (zno zinc adj oxide) same electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:57
S13 0	0	erosion near8 (zno zinc adj oxide) same electrode same magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:57
S13 1	0	erosion near8 (ito indium adj tin adj oxide zno zinc adj oxide) same electrode same magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 16:58

## EAST Search History

S13 2	0	erosion near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 16:58
S13 3	1	(deterioration erosion) near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:00
S13 4	2	(deterioration erosion corrosion) near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:04
S13 5	17	transparent near2 electrode and (mgzno znmgo) and zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:11
S13 6	6	transparent near2 electrode near15 (mgzno znmgo) and zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:15
S13 7	2	transparent near2 electrode near15 "mg-doped"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:16
S13 8	140	transparent near2 electrode near15 (magnesium-doped "mg-doped" magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:17
S13 9	52	transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:17
S14 0	11	transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium) near8 (ito zno (zinc adj oxide) indium-tin-oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:29
S14 1	4	transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium) near8 (ito zno (zinc adj oxide) indium-tin-oxide) and (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:30



## EAST Search History

S14 2	0	electrode near10 (zinc adj oxide zno) same (magnesium mg) same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:31
S14 3	268	electrode near10 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:32
S14 4	27	electrode near10 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing) and (contact adj resistance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:32
S14 5	10	electrode near4 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing) and (contact adj resistance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:37
S14 6	10	electrode near4 (zinc adj oxide zno) and (magnesium mg) near4 electrode and (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:42
S14 7	88	electrode near4 (zinc adj oxide zno ito indium adj tin adj oxide) and (magnesium mg) near4 electrode and (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:42
S14 8	1	electrode near4 (zinc adj oxide zno ito indium adj tin adj oxide) same ((magnesium mg) near4 electrode) same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:45
S14 9	5	"717557".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:45
S15 0	2	("20040113156").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 17:46
S15 1	0	(transparent adj electrode near6 ito near6 zno near6 "and the like") same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/08 17:47

## EAST Search History

S15 2	0	(transparent adj electrode near6 ito near6 zno near6 "and the like") same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:47
S15 3	0	(transparent adj electrode near6 ito near6 zno near6 "such as") same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:48
S15 4	0	(transparent adj electrode near6 ito near6 zno) same (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:48
S15 5	490	(transparent adj electrode near10 ito near10 zno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:48
S15 6	2	(transparent adj electrode near10 ito near10 zno) and magnesium near6 (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:51
S15 7	150	(zno zinc adj oxide) near6 (anneal annealing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:53
S15 8	8	(zno zinc adj oxide) near6 (anneal annealing) same (magnesium Mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 17:54
S15 9	4	(zno zinc adj oxide) near6 (anneal annealing) with (magnesium Mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 18:00
S16 0	17	(zno zinc adj oxide) with (anneal annealing) with (magnesium Mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/08 18:00
S16 1	11021	charge adj pump.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/09 15:03

## EAST Search History

S16 2	1	(US-20040166379-\$).did.	US-PGPUB	OR	OFF	2006/01/29 15:33
S16 3	710	electrode near4 (zno zinc adj oxide)	US-PGPUB	OR	ON	2006/01/29 15:34
S16 4	212	electrode near4 (zno zinc adj oxide) and light adj emitting.ti,ab, clm.	US-PGPUB	OR	ON	2006/01/29 15:34
S16 5	355	electrode near4 (zno zinc adj oxide) and light adj emitting.ti,ab, clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 15:34
S16 6	46	electrode near1 (zno zinc adj oxide) and light adj emitting.ti,ab, clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 15:35
S16 7	2	(magnesium mg) near6 (electrode near1 (zno zinc adj oxide)) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 15:36
S16 8	46	(electrode near1 (zno zinc adj oxide)) and light adj emitting.ti, ab,clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 15:47
S16 9	12	((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541.797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/29 15:48
S17 0	13	((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541,797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/29 15:58

## EAST Search History

S17 1	1	MgZnO near1 electrode and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:00
S17 2	1	MgZnO near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:00
S17 3	1	(Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:01
S17 4	44	(zno Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:01
S17 5	9	(zno Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm. and magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:10
S17 6	116	resistivity near2 zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:10
S17 7	69	resistivity near1 zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:10
S17 8	3	resistivity near1 zno and resistivity near1 ito	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:12
S17 9	0	resistivity near1 zno and resistivity near1 ito and (magnesium mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:12
S18 0	12	resistivity near1 zno and (magnesium mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:31

## EAST Search History

S18 1	2	jp-2001210867\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 16:33
S18 2	2	jp-2002164570\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:03
S18 3	2	jp-2000353820\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:05
S18 4	2	jp-2002111059\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:06
S18 5	2	jp-2002076356\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:07
S18 6	2	jp-2002222991\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:08
S18 7	2	jp-2002170993\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:15
S18 8	2	jp-2002170993\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:22
S18 9	2	"20020105279"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 17:36
S19 0	2	("6674098").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/29 17:36

## EAST Search History

S19 1	2	("20030231683").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/29 18:12
S19 2	2	("5451474").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/29 18:16
S19 3	0	magnesium and "20040061101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/29 18:17
S19 4	0	magnesium and "20040061101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 18:17
S19 5	0	(mg magnesium) and "20040061101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 18:21
S19 6	17	zno near1 electrode and (light adj emitting laser) and gan	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/29 18:22
S19 9	1567	zno near10 ito near10 (transparency transparent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:34
S20 0	791	zno near5 ito near5 (transparency transparent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:34
S20 1	350	zno near5 ito near5 (transparency transparent) and light adj emitting	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:34
S20 2	213	zno near5 ito near5 (transparency transparent) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:37

## EAST Search History

S20 3	6	magnesium same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:42
S20 4	6	(magnesium mgzno) same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:43
S20 5	6	(magnesium mgzno "mg:zno" "zno:mg") same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:43
S20 6	30	("Mg" magnesium mgzno "mg:zno" "zno:mg") same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:43
S20 7	13	(erosion eroding erode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmgo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:29
S20 8	1	(erosion eroding erode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmgo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:30
S20 9	6	(erosion eroding erode corrosion corroding corrode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmgo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:38
S21 0	1573	electrode near20 zno and (light adj emitting laser optoelectronic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:39
S21 1	7	(electrode near20 zno) same (erosion eroding erode corrosion corroding) and (light adj emitting laser optoelectronic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:40

## EAST Search History

S21 2	1	(electrode near20 zno) same (erosion eroding erdoe corrosion corrode corroding) same ("Mg" magnesium) and (light adj emitting laser optoelectronic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:40
S21 3	1	(electrode near20 zno) same (erosion eroding erode corrosion corrode corroding) same ("Mg" magnesium) and (light adj emitting laser optoelectronic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:41
S21 4	27	(electrode near20 zno) same (surface protect protection protecting coat coated coating) same ("Mg" magnesium) and (light adj emitting laser optoelectronic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 11:41



## EAST Search History

S21 5	54	(US-20020025440-\$ or US-20020030196-\$ or US-20020056838-\$ or US-20020105279-\$ or US-20020126719-\$ or US-20020163005-\$ or US-20030048072-\$ or US-20030132449-\$ or US-20030209723-\$ or US-20040051109-\$ or US-20040104392-\$ or US-20040113156-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20040189186-\$ or US-20040227141-\$ or US-20040235212-\$ or US-20050224825-\$).did. or (US-5625202-\$ or US-5670792-\$ or US-5804834-\$ or US-6057561-\$ or US-6259016-\$ or US-6320207-\$ or US-6416888-\$ or US-6541797-\$ or US-6639354-\$ or US-6806503-\$ or US-RE37446-\$ or US-5135817-\$ or US-5002837-\$). did. or (EP-1363334-\$).did. or (JP-11070610-\$ or JP-2000353820-\$ or JP-2001210867-\$ or JP-2002076356-\$ or JP-2002111059-\$ or JP-2002164570-\$ or JP-2002170993-\$ or JP-2002222991-\$ or JP-2004259549-\$).did. or (JP-50092490-\$ or JP-80013404-\$ or JP-59162133-\$ or EP-863555-\$ or JP-11070610-\$ or WO-200108229-\$ or JP-2001210867-\$ or JP-2002111059-\$ or WO-200245179-\$ or JP-2002076356-\$ or JP-2002222991-\$ or US-20040164314-\$ or US-20040166379-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/01/30 13:24
S21 6	34	S215 and (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:30

## EAST Search History

S21 7	23	(corrosion corrode corroding eroding erosion erode) near10 (zno zinc adj oxide) near10 (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:35
S21 8	1	(mgzno znmgo ("Zn.sub."\$3 near1 "Mg.sub."\$3 near1 "o")) near6 (coating coat coated erosion eording erode corrode corrosion corroding)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:39
S22 2	13	(coat coated coating) near10 (zno zinc oxide) near10 (magnesium "Mg") and electrode near10 (zno mgzno znmgo)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:40
S22 3	22	S215 and electrode near4 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:15
S22 4	8	S215 and (electrode near4 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:18
S22 5	0	S215 and (moisture near4 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:18
S22 6	2	S215 and (moisture near10 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:28
S22 7	2	S215 and (corrosion near10 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:30
S22 8	0	S215 and (corrode near10 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:30
S22 9	0	S215 and (corroding near10 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:30

## EAST Search History

S23 0	1	S215 and (erosion near10 (zno zinc adj oxide)) same (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:30
S23 1	308	sakai.in. and zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:26
S23 2	70	sakai.in. and zno and magnesium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:26
S23 3	11	sakai.in. and zno and magnesium and electrode and light adj emitting	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:30
S23 4	1	sakai.in. and zno and magnesium and electrode and light adj emitting and gan	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:28
S23 5	0	sakai.in. and zno and magnesium and electrode and light adj emitting and gan and zno near20 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:28
S23 6	2	jp-2002164570\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:31
S23 7	2	("20030209723").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 08:34
S23 8	8297	(Mg magnesium) near6 (protect protection protecting erosion eroding erode corrode corroding corrosion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:35
S23 9	44	(Mg magnesium) near10 (protect protection protecting erosion eroding erode corrode corroding corrosion) near10 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:36

## EAST Search History

S24 0	16	(Mg magnesium) near5 (protect protection protecting erosion eroding erode corrode corroding corrosion) near5 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:03
S24 1	0	(Mg magnesium) near3 (protect protection protecting erosion eroding erode corrode corroding corrosion) near3 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 08:36
S24 2	11664	(Mg magnesium) near5 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:04
S24 3	36	(Mg magnesium) near1 (doped doping) near5 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:04
S24 4	31	(Mg magnesium) near1 (doped doping) near1 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:04
S24 5	2	(Mg magnesium) near1 (doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkaline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:06
S24 6	1	(Mg magnesium alkaline-earth) near1 (doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:07
S24 7	1	(Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:08
S24 8	2	(Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:09

## EAST Search History

S24 9	2	((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:10
S25 0	2	((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali acid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:13
S25 1	12	((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:10
S25 2	5	((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) and (corrosion corroding corrode erode erosion eroding protect protecting protection alkali acid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:17
S25 3	1	((Mg magnesium alkaline-earth) near1 (coat coating coated) near1 (zno zinc adj oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:18
S25 4	120	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:18
S25 5	33	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:24
S25 6	9	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) same (corrosion erosion corrode erode corroding eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:19

## EAST Search History

S25 7	1	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and electrode near6 (zno zinc adj oxide mgzno znmgo magnesium near2 zno "mg:zno" "zno:mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:26
S25 8	33	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:26
S25 9	1	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:28
S26 0	5	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting "LED" laser optoelectronic LCD liquid adj crystal pixel adj electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:30
S26 1	5	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting "LED" laser optoelectronic LCD liquid adj crystal pixel adj electrode transparent adj electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:31
S26 2	33	((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:46

## EAST Search History

S26 3	1	mzo and zno and (erode eroding erosion protect protecting protection corrosion corroding corrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:58
S26 4	7	mzo and zno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 09:59
S26 5	91	zno adj electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:30
S26 6	0	zno adj electrode near10 (magnesium "Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:30
S26 7	0	"zno/mzo" adj electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:30
S26 8	0	"mzo" adj electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:30
S26 9	1	"mzo" near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:31
S27 0	8112	("Mg.sub."\$3 "Zn.sub."\$3 "O") near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:32
S27 1	1	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O") near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:36
S27 2	1	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg") near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:37

## EAST Search History

S27 3	2	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj doped adj zno) near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:38
S27 4	1	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno) near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:39
S27 5	1	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno "mzo/zno") near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:39
S27 6	2	("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno "mzo/zno" mzo) near10 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 10:42
S27 7	2313	magnesium and transparent near3 (electrode film) near3 conductive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:07
S27 8	63	magnesium near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:15
S27 9	63	(magnesia magnesium) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:16
S28 0	96	(magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:16
S28 1	67	(magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid crystal LCD pixel adj electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:17



## EAST Search History

S28 2	59	(magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid adj crystal LCD pixel adj electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:18
S28 3	11	(magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid adj crystal LCD pixel adj electrode) and electrode near10 (zno mzo mgo "zno:mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:36
S28 4	13	(mg-doped mg-doping mg adj doping mg-coated mg adj coating) near2 (zno zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:50
S28 5	21	"6316807"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:51
S28 6	105	"5998833"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/31 12:51
S28 7	4	((("6316807") or ("5998833")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/31 12:52
S28 8	2	("6674098").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 13:57
S28 9	3	(magnesium Mg) near3 (corrosion erosion) and (transparent adj conductive adj oxide TCO)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 13:59

## EAST Search History

S29 0	3	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (transparent adj conductive adj oxide TCO)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:00
S29 1	143	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (transparent adj conductive adj oxide TCO ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:01
S29 2	140	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:01
S29 3	0	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) near3 (ZnO zinc adj oxide) and (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:02
S29 4	12	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) same (ZnO zinc adj oxide) and (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:03
S29 5	12	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) same (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:05
S29 6	10	(magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:13
S29 7	526	(magnesium Mg) near3 (acid acidity alkaline alkalinity corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:18
S29 8	270	(magnesium Mg) near3 (acid acidity alkaline alkalinity corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:19

## EAST Search History

S29 9	0	(magnesium Mg) near3 (acid acidity alkaline alkalinity) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:19
S30 0	3	(magnesium Mg) near6 (acid acidity alkaline alkalinity) near6 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:19
S30 1	8	(magnesium Mg) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:21
S30 2	8	(magnesium Mg magnesium adj oxide Mg adj oxide) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:21
S30 3	76	(MgZnO magnesium adj zinc oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:22
S30 4	51	(MgZnO magnesium adj zinc oxide MZO) near6 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:23
S30 5	0	(MgZnO magnesium adj zinc adj oxide MZO) near6 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:23

## EAST Search History

S306	0	(MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:23
S307	0	(MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:23
S308	0	(MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:27
S309	0	(grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:28
S310	0	(grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magneisum adj zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:29
S311	0	(grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:29
S312	7	(grading graded concentration) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 14:35
S313	5	("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide) near4 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:32
S314	19	(conductivity resistsivity) near4 ITO and (resistivity conductivity) near4 ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:33

## EAST Search History

S31 5	25	(conductivity resistivity) near4 ITO and (resistivity conductivity) near4 ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:47
S31 6	144137	n-type electrode near4 ZnO near6 light-emitting.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:48
S31 7	0	(n-electrode n-type adj electrode) near6 ZnO near6 light-emitting.ti, ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:49
S31 8	5	(n-electrode n-type adj electrode) near6 ZnO and light-emitting.ti,ab, clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:50
S31 9	7	(n-electrode n-type adj electrode) near6 ZnO and (laser light-emitting).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:51
S32 0	13	(n-electrode n-type adj electrode) near6 ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 15:53
S32 1	13	(n-electrode n-type adj electrode) near6 (zinc adj oxide ZnO)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 16:15
S32 2	2	"20020105279".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:04
S32 3	49	magnesium near4 (acid alkaline) near4 (protecti\$2 protect)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:05
S32 4	7	magnesium near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:24

## EAST Search History

S32 5	2	("6483776").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 17:17
S32 6	10	(Mg magnesium) near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:26
S32 7	10	(Mg magnesium) near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno "Mg:ZnO" "ZnO:Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:28
S32 8	41	(Mg magnesium) near8 (acid alkaline) near8 (protecti\$2 protect) and (zinc adj oxide zno "Mg:ZnO" "ZnO:Mg")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 17:28
S32 9	1	((MZO MgZnO) near4 ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:03
S33 0	1	((MZO MgZnO Mg-doped adj ZnO) near4 ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:03
S33 1	1	((MZO MgZnO Mg-doped adj ZnO magnesium adj zinc adj oxide) near4 ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:04
S33 2	1	(MZO MgZnO Mg-doped adj ZnO magnesium adj zinc adj oxide) near4 (indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:04
S33 3	3	(MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide))) near4 (indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:06
S33 4	3	(MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:07

## EAST Search History

S33 5	3	(MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:07
S33 6	3	(MZO ZnMgO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:07
S33 7	26	(MZO ZnMgO MgZnO Mg-doped adj ZnO Zn-doped MgO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:08
S33 8	3	(MZO ZnMgO MgZnO Mg-doped adj ZnO Zn-doped adj MgO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:11
S33 9	2	("6867539").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 18:35
S34 0	14	(Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 18:36
S34 1	1	((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 18:36
S34 2	2	((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) same electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 18:37
S34 3	9	((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 18:40

## EAST Search History

S34 4	2	((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) and (anode cathode electrode) with ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:41
S34 5	23	((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO) and (anode cathode electrode) with ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 18:42
S34 6	18	((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 19:16
S34 7	2	"20050136572"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 19:03
S34 8	2040	((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 19:19
S34 9	20	((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 19:34
S35 0	20	((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser (transparent near1 electrode))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 19:35



## EAST Search History

S35 1	25	((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:31
S35 2	0	(MZO ZnO MgZnO) near6 "Au/Ni"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:32
S35 3	1115	(MZO ZnO MgZnO) near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:32
S35 4	0	(MZO ZnO MgZnO) near3 electrode and electrode near6 "Au/Ni"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:32
S35 5	573	(MZO ZnO MgZnO) near3 electrode and electrode near6 (metal metallic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:32
S35 6	314	(MZO ZnO MgZnO) near3 electrode and electrode near2 metal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:33
S35 7	66	(MZO ZnO MgZnO) near3 electrode and electrode near2 metal and light-emitting	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:50
S35 8	2	mondtxa. and ito near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:51
S35 9	12	mondtxa. and (transparent ito) near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:59

## EAST Search History

S36 0	10508	(transparent ito) near3 electrode and metal near2 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 20:59
S36 1	293	(transparent ito) near3 electrode and metal near2 electrode and light-emitting.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 21:00
S36 2	154	(ito) near3 electrode and metal near2 electrode and light-emitting. ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 21:00
S36 3	156	(ito zno) near3 electrode and metal near2 electrode and light-emitting.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 21:00
S36 4	16	(ito zno) near3 electrode.ti,ab,clm. and metal near2 electrode and light-emitting.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 21:41
S36 5	14	metal adj contact near6 (transparent adj electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:27
S36 6	0	"ITO/MgZnO/ZnO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:27
S36 7	0	"ITO/MZO/ZnO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:27
S36 8	0	"ZnO/MZO/ITO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:28
S36 9	0	"ZnO/MgZnO/ITO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:28

## EAST Search History

S37 0	0	"ZnO-MgZnO-ITO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:28
S37 1	0	"ITO-MgZnO-ZnO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/16 22:28
S37 2	209	rare adj earth near3 (zinc adj oxide zno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:16
S37 3	107	rare adj earth near3 (zinc adj oxide zno) and (magnesium mg)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:16
S37 4	34	rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:16
S37 5	0	rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode and mzo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:17
S37 6	0	rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode and mgzno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:17
S37 7	34	rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:28
S37 8	2406	rare adj earth and zno and (acid alkaline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:30
S37 9	0	rare adj earth near3 zno and (acid alkaline) near4 (protecti\$2 protect corrosion corroding erosion eroding corrode erode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:31

## EAST Search History

S38 0	0	rare adj earth near3 zno and (acid alkaline) near4 (resistance protecti\$2 protect corrosion corroding erosion eroding corrode erode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 00:31
S38 1	779	(501/69).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 11:23
S38 2	175	S381 and (zinc adj oxide zno) and (rare adj earth magnesium mno mgzno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:24
S38 3	1	S381 and (zinc adj oxide zno) and (rare adj earth magnesium mno mgzno) near10 (corrode corrosion corroding protecti\$2 protect)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:40
S38 4	1	S381 and (rare adj earth magnesium mno mgzno) near10 (corrode corrosion corroding protecti\$2 protect)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:40
S38 5	3	S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:41
S38 6	0	S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and transparent near3 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:41
S38 7	1	S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and (transparent near3 electrode ito zno mgzno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:43
S38 8	11	"501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and (transparent near3 electrode ito zno mgzno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:48

## EAST Search History

S389	243	"501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode acid alkaline) and (transparent near3 electrode ito zno mgzno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:50
S390	2	"501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode acid alkaline) and (transparent near3 electrode) and (ito zno mgzno)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 11:50
S391	2	jp-2001017486\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 13:19
S392	0	jp-20022222991\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 13:20
S393	2	jp-20022222991\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 13:24
S394	2	("20020030196").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:17
S395	0	("(MZOMgZnO)near2(transparentn ear1electrode)").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:18
S396	1	(MZO MgZnO) near2 (transparent near1 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:19
S397	7	(MZO MgZnO) near10 (transparent near1 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:20

## EAST Search History

S39 8	7	(MZO MgZnO) near10 (transparent near3 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:20
S39 9	128	(MZO MgZnO magnesium) near10 (transparent near3 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:21
S40 0	9	(MZO MgZnO ((Mg magnesium) near2 ZnO)) near10 (transparent near3 electrode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:24
S40 1	2	("20020126719").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:25
S40 2	2	("20030209723").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:27
S40 3	68	(MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 14:29
S40 4	89	(MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:29
S40 5	14	(MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:36
S40 6	0	(MgO magnesium adj oxide magnesia) near4 (transparent near1 electrode) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 14:33

## EAST Search History

S407	9	(MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser) and (corrosion corrode corroding)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:46
S408	0	jp-20020164570\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:46
S409	2	"20020164570".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:49
S410	2	jp-2002164570\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:46
S411	17905	((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (372/43.01) or (372/46.01) or (372/46.013) or (372/46.015) or (372/29.013) or (349/42) or (349/43) or (349/44) or (349/45) or (349/46) or (349/47) or (349/48) or (349/49) or (349/50) or (349/51) or (349/52) or (349/53)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 16:47
S412	1	S411 and (zinc adj oxide zno) and ("mg:zno" "zno:mg" (mg-doped near1 zno) "mg" near1 (doped doping) near1 (zinc oxide zno)) and transparent near2 electrode and (light-emitting light adj emitting laser display)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/17 16:50
S413	1	S411 and (zinc adj oxide zno) and ("mg:zno" "zno:mg" (mg-doped near1 zno) "mg" near1 (doped doping) near1 (zinc oxide zno)) and transparent near2 electrode and (light-emitting light adj emitting laser display)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:50

## EAST Search History

S41 4	0	(zno zinc adj stannate) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:39
S41 5	0	(zno zinc adj stannate "zn.sub."\$1 near1 "sno.sub.4" mzo) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:41
S41 6	9	(zno zinc adj stannate "zn.sub."\$1 near1 "sno.sub.4" mzo) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride GaN GaAlN AlN AlGaIn InGaAlN GaInAlN GaAlInN InAlGaIn AlGaInN AlInGaIn)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:47
S41 7	151693	p-type dopant near10 (Mg near10 Mn)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 13:48
S41 8	13	p-type adj dopant near10 (Mg near10 Mn)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:57
S41 9	37	p-type adj dopant near10 (zno mzo)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:58
S42 0	0	p-type adj dopant near10 (zno mzo) near10 mg	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 14:58
S42 1	5	p-type near4 (zno mzo) near10 mg	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/15 15:02
S42 2	112	(zno zinc adj oxide) same (mg magnesium) same electrode and (GaN "III-V")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 17:26



## EAST Search History

S42 3	50	(zno zinc adj oxide) with (mg magnesium) same electrode and (GaN "III-V")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 17:28
S42 4	27	(zno zinc adj oxide) with (mg magnesium) same electrode and (GaN "III-V") and @ad<"20031230"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 17:28
S42 5	510	zno near2 electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 17:47
S42 6	1	zno near2 electrode with mg-doped	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 17:48
S42 7	1	zno near2 electrode with ((mg magnesium) near2 (doped doping))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 17:48
S42 8	79	zno adj electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 17:54
S42 9	2	("20020126719").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 18:13
S43 0	2	magnesium adj zincate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/09 18:14
S43 1	1	((magnesium adj zincate) ("Mg. sub."\$3 near1 "Zn.sub."\$3 near1 O)) with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:27
S43 2	0	((magnesium adj zincate) ("Mg. sub."\$3 near1 "Zn.sub."\$3 near1 O)) with electrode and GaN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:31

## EAST Search History

S43 3	0	((magnesium adj zincate) ("Mg. sub."\$3 near1 "Zn.sub."\$3 near1 O)) with (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:32
S43 4	0	((magnesium adj zincate) ("Mg. sub."\$3 near1 "Zn.sub."\$3 near1 O)) with (buffer) with sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:33
S43 5	2	(magnesium adj zinc adj oxide (magnesium adj zincate) ("Mg. sub."\$3 near1 "Zn.sub."\$3 near1 O)) with (buffer) with sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:42
S43 6	0	jp-200168485\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:51
S43 7	5	MgZnO near3 buffer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:51
S43 8	5	MgZnO near3 buffer and sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 18:51
S43 9	84	MgO near4 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:16
S44 0	94	ZnO near4 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:19
S44 1	420	sapphire near4 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:19
S44 2	238	sapphire near2 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:21

## EAST Search History

S44 3	5	c-plane adj sapphire near2 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:28
S44 4	37	c-plane adj sapphire and sapphire near2 (lattice adj constant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:35
S44 5	0	zno near6 buffer near6 mgzno near6 sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:35
S44 6	0	zno with buffer with mgzno with sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:36
S44 7	5	buffer with mgzno with sapphire	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 19:36
S44 8	0	"20050224825".pn. and buffer near4 ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:39
S44 9	0	"20050224825".pn. and buffer and ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:39
S45 0	2	"20050224825".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:39
S45 1	2	S450 and buffer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:45
S45 2	8	buffer near4 "MgZnO"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:46

## EAST Search History

S45 3	5	buffer near4 "MgZnO" and sapphire and GaN	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 09:51
S45 4	0	buffer near4 ("Mg.sub."\$4 near1 "Zn.sub."\$4 near1 "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:10
S45 5	0	buffer near6 ("Mg.sub."\$4 near1 "Zn.sub."\$4 near1 "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:11
S45 6	0	buffer near6 ("Mg.sub."\$4 adj "Zn. sub."\$4 adj "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:11
S45 7	4	buffer and ("Mg.sub."\$4 adj "Zn. sub."\$4 adj "O")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 10:11
S45 8	23	graded near3 buffer and zno and mgo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:58
S45 9	0	graded near3 buffer same zno same mgo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:53
S46 0	0	graded near3 buffer same mgzno	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:53
S46 1	0	graded near3 buffer same mzo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:53
S46 2	0	grad\$3 near3 buffer same mzo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:53

## EAST Search History

S46 3	172	sic near3 substrate same sapphire. ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 15:58
S46 4	10	sic near3 substrate same sapphire. ti,ab,clm. and silicon adj carbide. ti,ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 16:03
S46 5	1403	sic near3 substrate.ti,ab,clm. and silicon adj carbide	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 16:03
S46 6	2	"6057561".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 16:18
S46 7	4	lattice adj constant near10 MgO near10 ZnO	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:30
S46 8	16	lattice adj matching near4 efficiency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:53
S46 9	1	GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable) near4 p-type near4 n-type	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:56
S47 0	1	GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable switch switching switchable) near4 p-type near4 n-type	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:56
S47 1	8	GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable switch switching switchable reverse reversing reversible) near4 p-type near4 n-type	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/10 17:57